ABSTRACT

A blade assembly that can be assembled into a microkeratome which is used to cut a cornea. The blade assembly is constructed in a manner that minimizes the tolerance of the cutting depth into the cornea. The blade assembly includes a blade holder that can be pressed onto a blade. The relative position of the blade holder can be calibrated to control the distance between a reference surface of the blade holder and the cutting edge of the blade. This distance defines the cutting depth of the blade. The blade holder is coupled to the blade with an interference fit that both secures the holder while providing for calibration of the assembly.